

GRANDY'S PATENT CAM-POWER SAW-SET.

Having frequent calls for the *best* Saw Set in the market, we have contracted with the inventor to manufacture the set here shown. Having found it by all odds the handiest, simplest and most accurate yet invented, we can conscientiously recommend it to your notice.

We make them to bend the teeth of *every* kind of saw in the country, and warrant them to do their work every time without fail.

The following are some of their special advantages over all other sets made :

1. Less liability to break the saw-teeth, because the bend is a curve, not an angle ; and if the plate is so hard that the teeth will not bend without breaking, there is no possibility of breaking more than half an inch from the point on large saws, because there is no strain brought to bear on the tooth lower than that amount.

2. The teeth will hold set longer, because of the shortness of the bend, being, where it should be, near the point tooth—(and in no case do the dies touch the extreme point)—approaching the acuteness of the swedged tooth

without the excessive wear and brittleness caused by an upset.

3. Its conveniences. Being readily adjustable to different thicknesses of saw-plates, the adjustment only shortens the distance between the bead-die and die-bar, and in no wise alters the power of the cam ; also, a 4 point gauge on the handle, to gauge the amount of set, preventing the handling and necessity of looking after two articles.

4. Its simplicity of arrangement: being an application of the great power of a cam to a saw-set.

5. Its durability : the strength of metal being where the resistance is greatest, and other parts light in proportion. The dies are made of Jessup steel, hardened to a hammer temper, and firmly screwed in to their bases, avoiding their battering or jamming out of shape.

6. Its adaptability : being arranged for a saw-set, and for no

other purpose. Monkey wrenches or hammers are useful tools, but are poor saw-sets.

7. All saws are set on their frames, pulleys or arbors.

8. Its quickness of doing the work. A band-saw, with one thousand or more teeth, can be set in fifteen to twenty-five minutes ; other saws as quick in proportion.

DIRECTIONS FOR USE.

For Circular Saws.—Splitting or Cutting Off:

Stand behind the saw cutting from you ; put the bed-die on the point of the tooth far enough so the extreme point will project beyond any bearing. (N. B. The teeth should be kept filed, so as to let point project one-sixteenth of an inch.) Then adjust the amount of set, by letting out or taking up the cam-link by means of the thumb nuts. Bring the cam-lever down to the stop on the cam, try the set by the gauge on the handle, giving as much as you like. About one gauge for each side is about right for summer sawing, and less in the winter.

For Band Saws :

Set the side that is cutting upwards ; press down the die-bar,

so as to slip the cam-link over the end of the die-bar, then put it around the saw-blade ; replace the cam, slide the back guide to the front, to bring the tooth over the bed-die, and then press the upper die on to the tooth to be set ; adjust the guide-pawl to the bottom of a tooth, and turn down the screw, so the pawl will act as a guide for setting every other tooth. When it passes over two teeth, bring the cam down to the stop on the cam. Adjust the amount of set by taking up or letting out the cam-link.

A few drops of oil should occasionally be applied to the cam and link bearings. It will make fully one half less work to operate it.

TERMS OF WARRANT.

We warrant this Set to do its work, without giving out, for a reasonable time, say one year. If it breaks or gives out, when used on the thickness of plate marked on each Set, in the time, we will replace it with a new one, the broken one being first returned.

Each Set is stamped the No. of Set, and range of gauges it is warranted to set. Thus.

No. 1 is designed to set	-	-	-	-	5 to 10 gauges.
" 2 "	"	"	"	"	7 to 10 "
" 3 "	"	"	"	"	10 to 14 "
" 4 "	"	"	"	"	14 to 20 "
" 5 "	"	"	"	"	16 to 0 "

The cut shows a No. 3 Set, as applied to a circular saw.

PRICE LIST.

No. 1, Finished,	- \$7.00	Black,	- - - \$6.00
" 2, "	- 6.00	"	- - - 5.00
" 3, "	- 5.00	"	- - - 4.00
" 4, "	- 3.00	"	- - - 2.50
" 5, "	- 2.50	"	- - - 2.00

Nos. 4 or 5 Circular Saw Set makes the most handy and convenient Cross-Cut Saw Set yet introduced, being easily carried in the pocket, and weighing but ten or twelve ounces.

BAND OR CIRC SAW-SET.

No. 1, Finished,	- \$7.00	Black,	- - - \$6.00
No. 2, Finished,	- \$6.00	Black,	- - - 5.00
" 3, "	- 4.00	"	- - - 3.50
No. 1, Band Saw-Sets,	- - - -	$\frac{1}{2}$ to 5 inches wide.	
" 2, " " " "	- - - -	$\frac{1}{4}$ to $1\frac{1}{2}$ " "	
" 3, " " " "	- - - -	$\frac{1}{8}$ to 1 " "	

S. C. Forsaith & Co., Machinists and General Machine Dealers,
MANCHESTER, N. H.